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New claim program, Gerfast 10/706,416

Claims.

April 10 2006

- 1. (cancelled) Butt-joining method comprising:
- In two abutting metal strips punching a substantially rectangular slot into both abutments,

 inserting into said two slots a deformable slug, clinching said slug into said slots,

 thereby securely joining said strips.
 - 2. (cancelled) Butt-joining method as defined in claim 1 wherein said slots in both said abutments are keystone shaped instead of rectangular.
- 3. (cancelled) Butt-joining method as defined in claim 1 wherein said slotsin both said abutments have two rounded edges produced by both a punch and a die.
 - 4. (cancelled) Butt-joining method as defined in claim 1 wherein said strips are of other material than metal.
 - 5. (cancelled) Butt-joining method as defined in claim 1 wherein a plurality of slots are used.
 - 6. (cancelled) (Replaced by claim 15) Butt-joining method as defined in claim 2 wherein said keystone shaped slugs slots are also having said rounded corners.
 - 7. (previously amended) Butt-joining clinch method comprising:
 In two abutting metal strips punching a substantially rectangular slot into both abutments, wherein said slots have two rounded edges produced by both a punch and a die, using one knock-out-slug from said punching, re-inserting said slug into the center of both said abutments, clinching said slug into said slots thereby securely butt-joining said strips.
 - (cancelled) Butt-joining clinch method as defined in claim 7 wherein said slots in both said abutments is keystone shaped instead of rectangular.
 - (cancelled) Butt-joining clinch method as defined in claim 7 wherein said slots
 in both said abutments have two rounded edges produced by both a punch and a die.
- 25 10. (previously amended) Butt-joining clinch method as defined in claim 7 wherein said strips are of other material than metal.

- 11. (previously amended) Butt-joining clinch method as defined in claim 15 wherein a plurality of slots is used.
- 12. (previously amended) Butt-joining clinch method as defined in claim 7 wherein clinching height produced by said clinching is flush or slightly below
- 5 the surface of said strips.
 - 13. (previously amended) Butt-joining clinch method as defined in claim 7 wherein said metal strips are mitered at 45 degrees and abutted at said mitering, with four said mitered strips forming a frame.
- 14. (previously amended)) Butt-joining clinch method as defined in claim13 wherein10 during said mitering remnants of said metal strips is purposely left at 45 degrees.
 - 15. (Replaces claim 6) (previously amended) Butt-joining method comprising:

 In two abutting metal strips punching a substantially keystone shaped slot into both abutments, wherein said slots have two rounded edges produced by both a punch and a die, inserting into said two slots a deformable slug, clinching said slug into said slots,
- 15 thereby securely butt-joining said strips.